

Kaushal Shukla

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Skills

- **Programming Languages:** Python, C++
- **AI/ML Frameworks:** PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, Langchain,
- **Tools & Platforms:** Git, Github, Docker, Amazon Web Services (AWS), MongoDB, MySQL
- **Additional Skills:** Pytest, Flask, Streamlit, FastAPI, LLM Fine-tuning, Ollama, vLLM, transformers

Work Experience

JR. DATA SCIENTIST @NEXUSLINK SERVICES PVT LMT

JUN 2024 – PRESENT

- Developed an audio noise reduction app and implemented transcription/diarization systems using DeepFilterNet, NVIDIA NeMo, and OpenAI Whisper.
- Built a RAG system leveraging large language models (LLMs) for enhanced information retrieval.
- Created and deployed scalable APIs using FastAPI and containerized applications with Docker.
- Managed cloud infrastructure and deployments on **AWS**, optimizing for performance and cost, while handling version control and code management through **GitHub** to streamline team collaboration.

AI/ML INTERN @ RIVEREDGE ANALYTICS PVT LMT

JAN 2024 – APR 2024

- Developed and deployed an innovative invoice data extraction solution for a startup, leveraging Generative AI techniques for structured data processing efficiency.
- Implemented OpenAI API integration to facilitate seamless extraction of data from PDF and image-based invoices, significantly enhancing processing speed and accuracy.
- Engineered a robust FastAPI framework for efficient invoice processing, coupled with MySQL database management for scalable and reliable data storage and retrieval.
- Cultivated expertise in generating tailored writing prompts for diverse AI tasks specific to document analysis and processing

Project Experience

AI Based Todo Assistant | [github](#)

- Developed a voice-activated Todo Assistant application using Python, leveraging generative AI and large language models (LLMs) for enhanced task management.
- Streamlined task management by allowing users to manage their to-do lists hands-free, improving productivity.
- Integrated Voice Command and Dynamic GUI: Captured voice commands using speech_recognition and provided text-to-speech responses with pyttsx3 in a user-friendly interface designed with tkinter and ttk.
- Utilized the llama3-70b model from the Groq API to interpret user commands, identify specific tasks, and perform CRUD operations on MongoDB.

Employee Churn Predictor | [github](#)

- Developed predictive models utilizing XGBClassifier algorithms to forecast employee churn, achieving an accuracy rate of 87.3%.
- Employed modular coding techniques for the entire machine learning pipeline, including data ingestion, validation, model training, validation, and deployment.
- Demonstrated expertise in Python, Machine Learning, Git, MongoDB, Statistical Analysis, Data Visualization, Modular Coding, GitHub, and Hypothesis Testing.

Education

VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE

- B.E. in Electronics and Communication

2020-2024